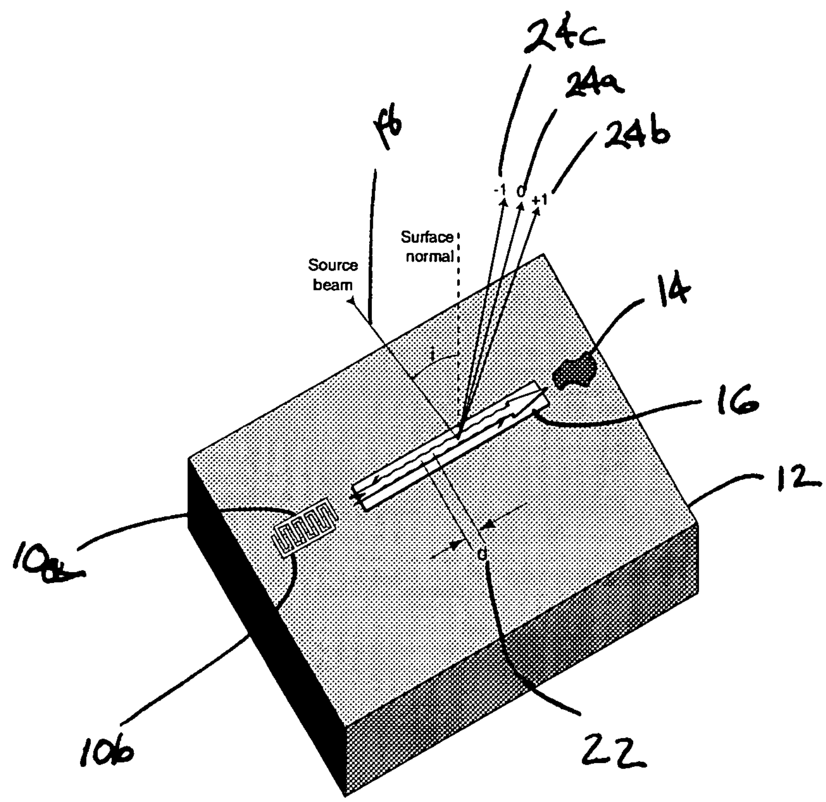

24c
24a
24b
f6
-1
0
+1
Surface normal
Source beam
i
14
16
12
10a
10b
d
22

FIG 1

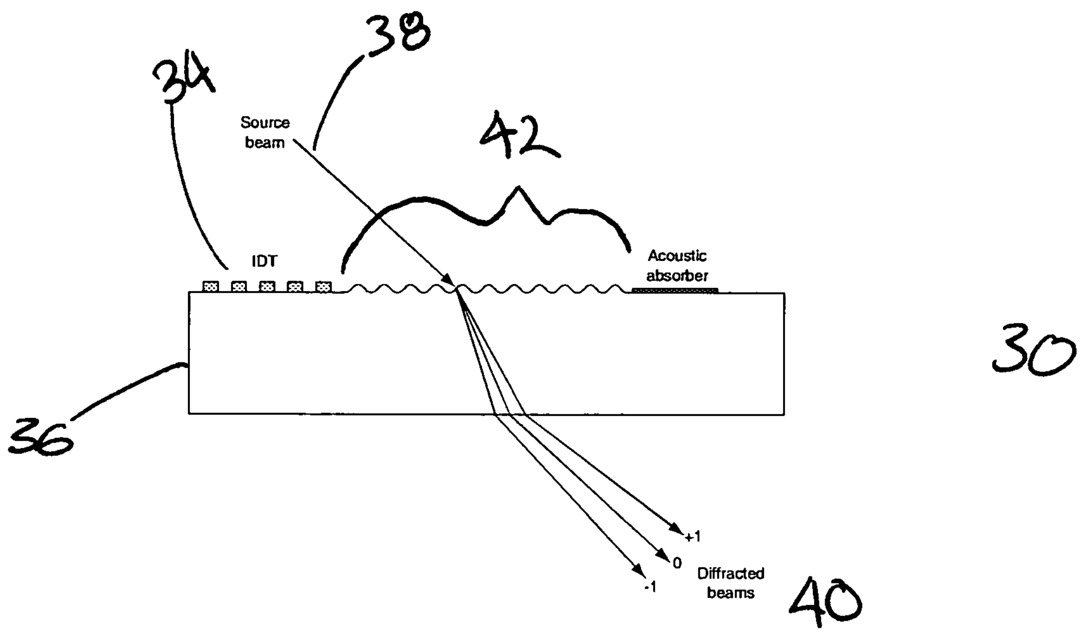

38
34
Source
beam
42
IDT
Acoustic
absorber
30
36
+1
0
-1
Diffracted
beams
40

FIG 2

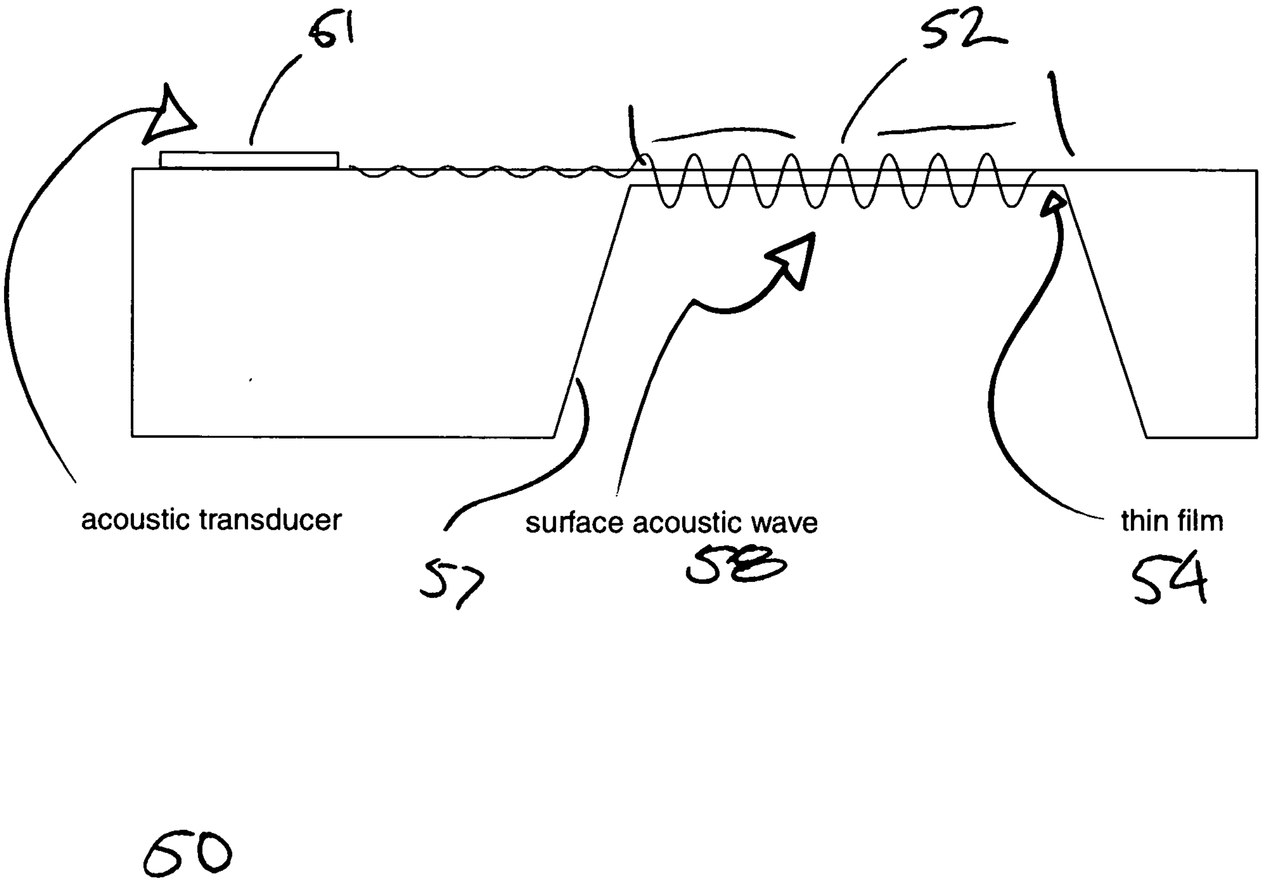

61
52
acoustic transducer
surface acoustic wave
thin film
57
58
54
50

FIG 3

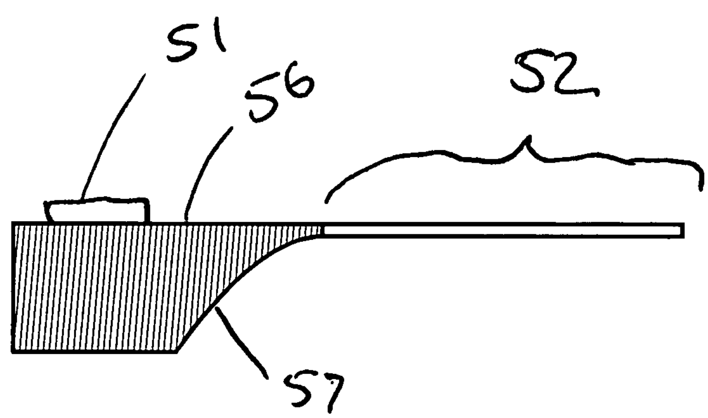


FIG 3b

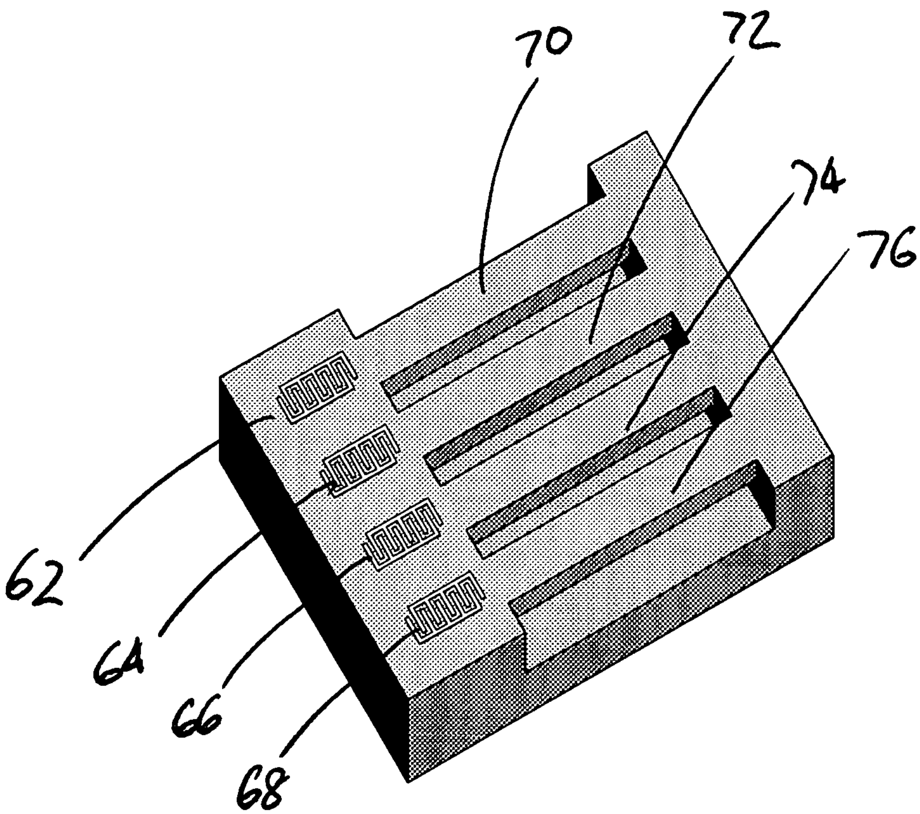


FIG 4a

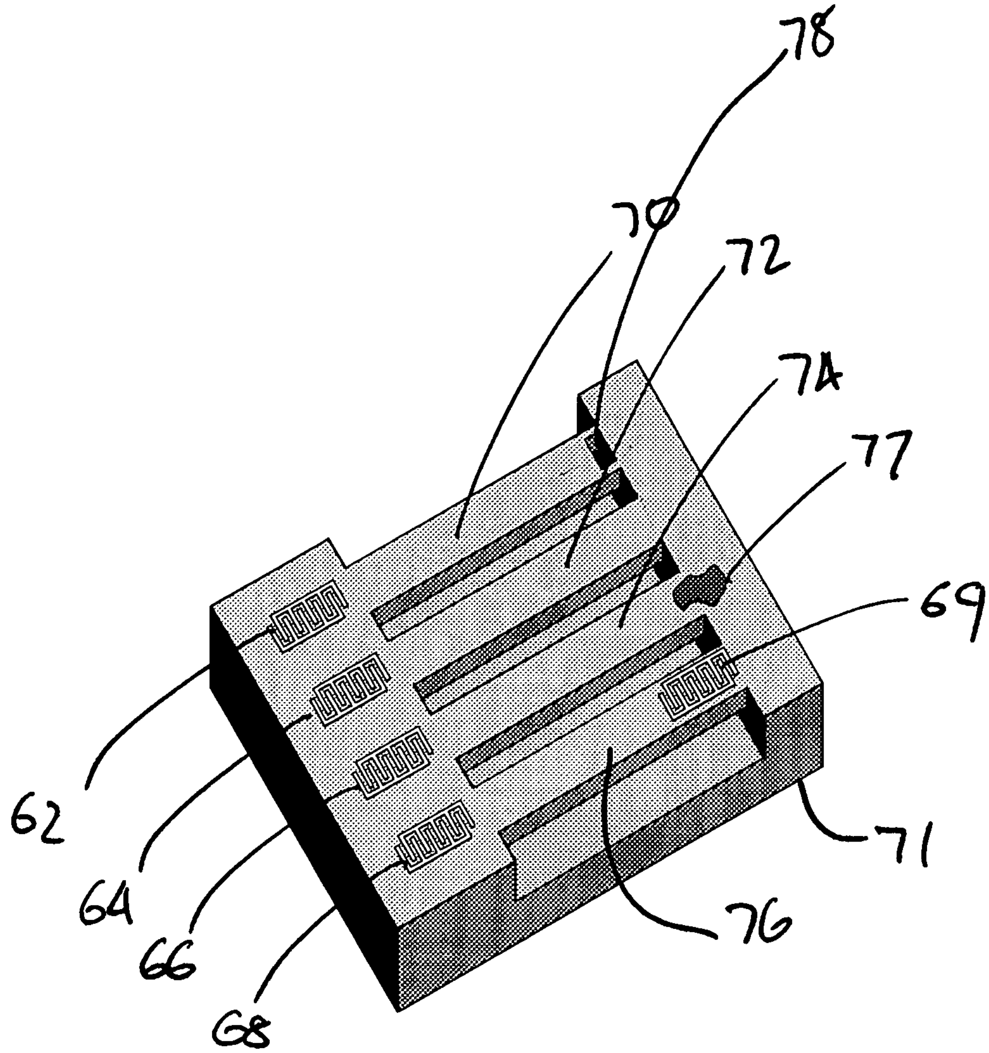


FIG. 4b

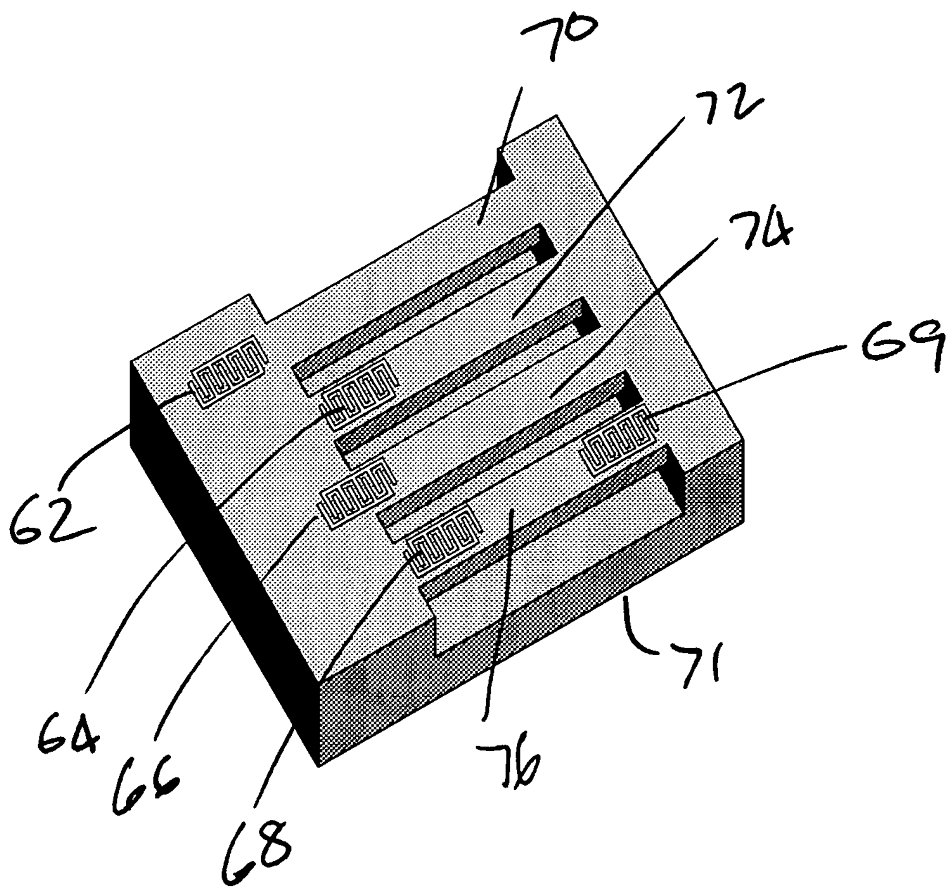


FIG 4c

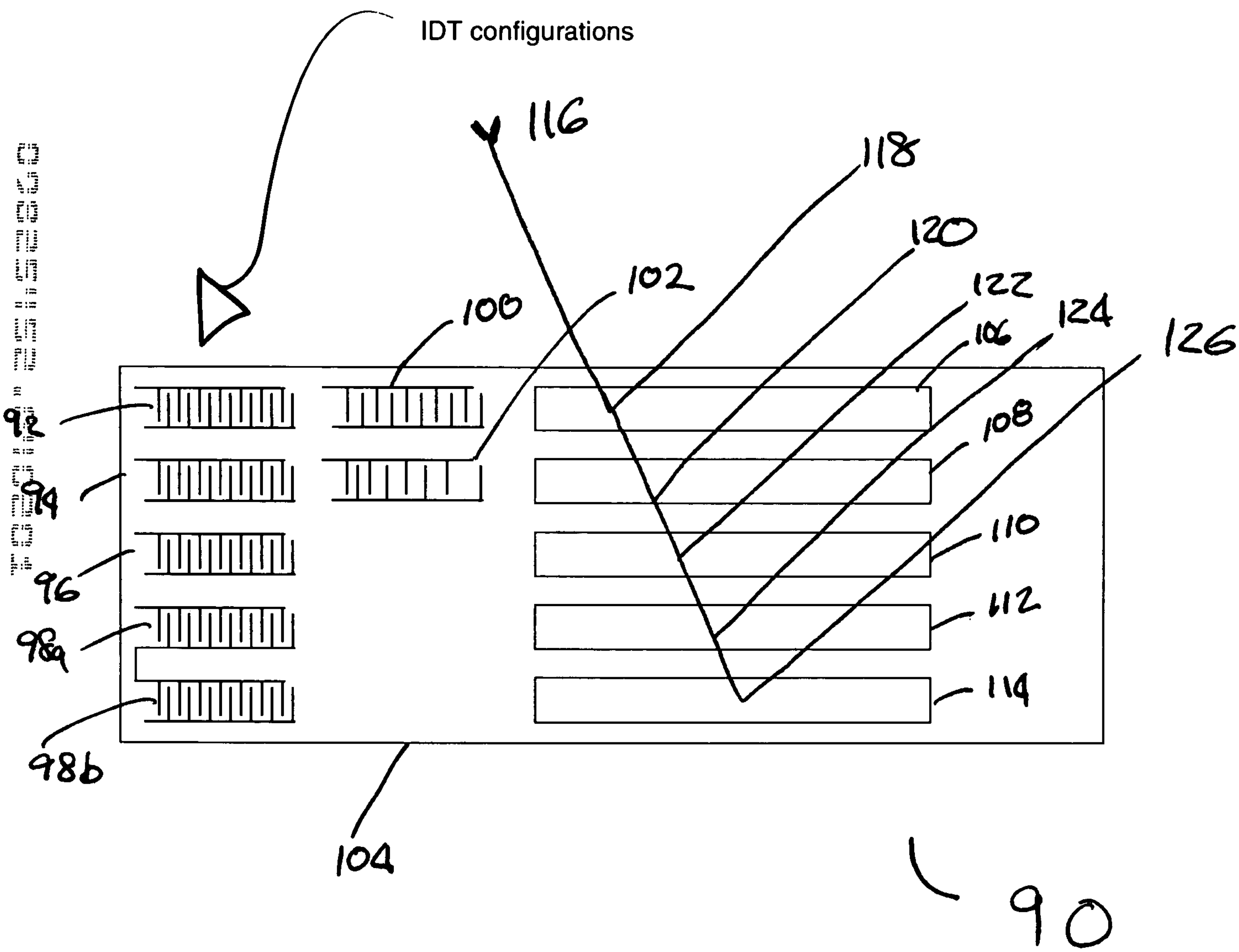
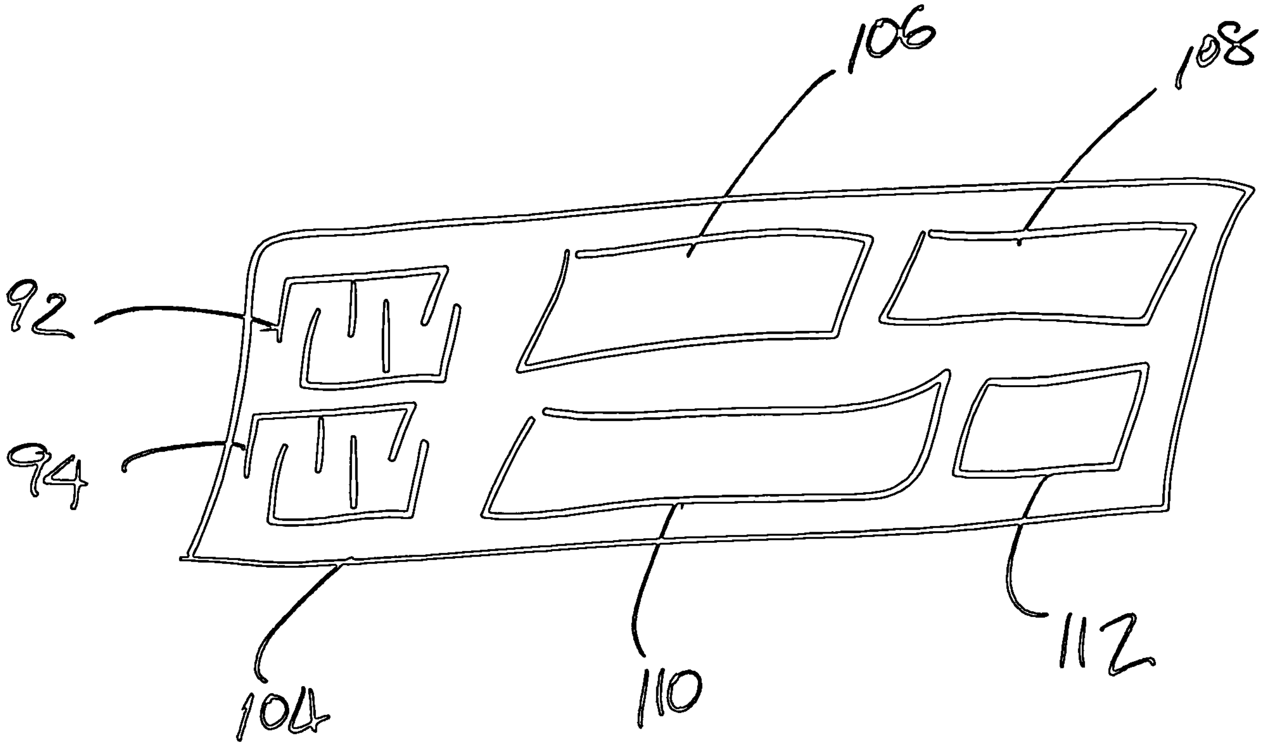
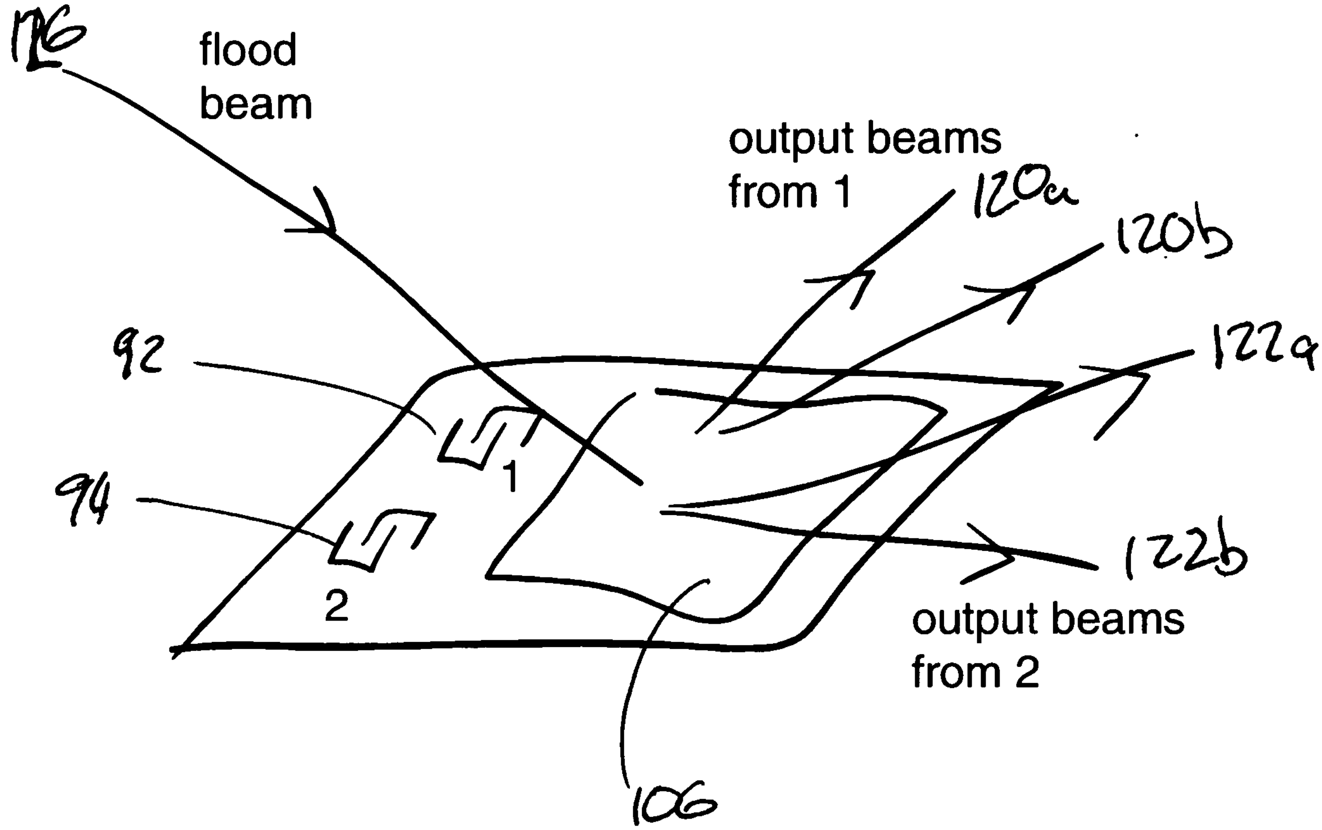

IDT configurations
116
118
120
102
122
100
124
106
126
92
108
94
110
96
112
98a
114
98b
104
90

FIG 5a



5B



126
flood
beam
output beams
from 1
120a
120b
122a
92
1
94
2
122b
output beams
from 2
106

FIG 5C

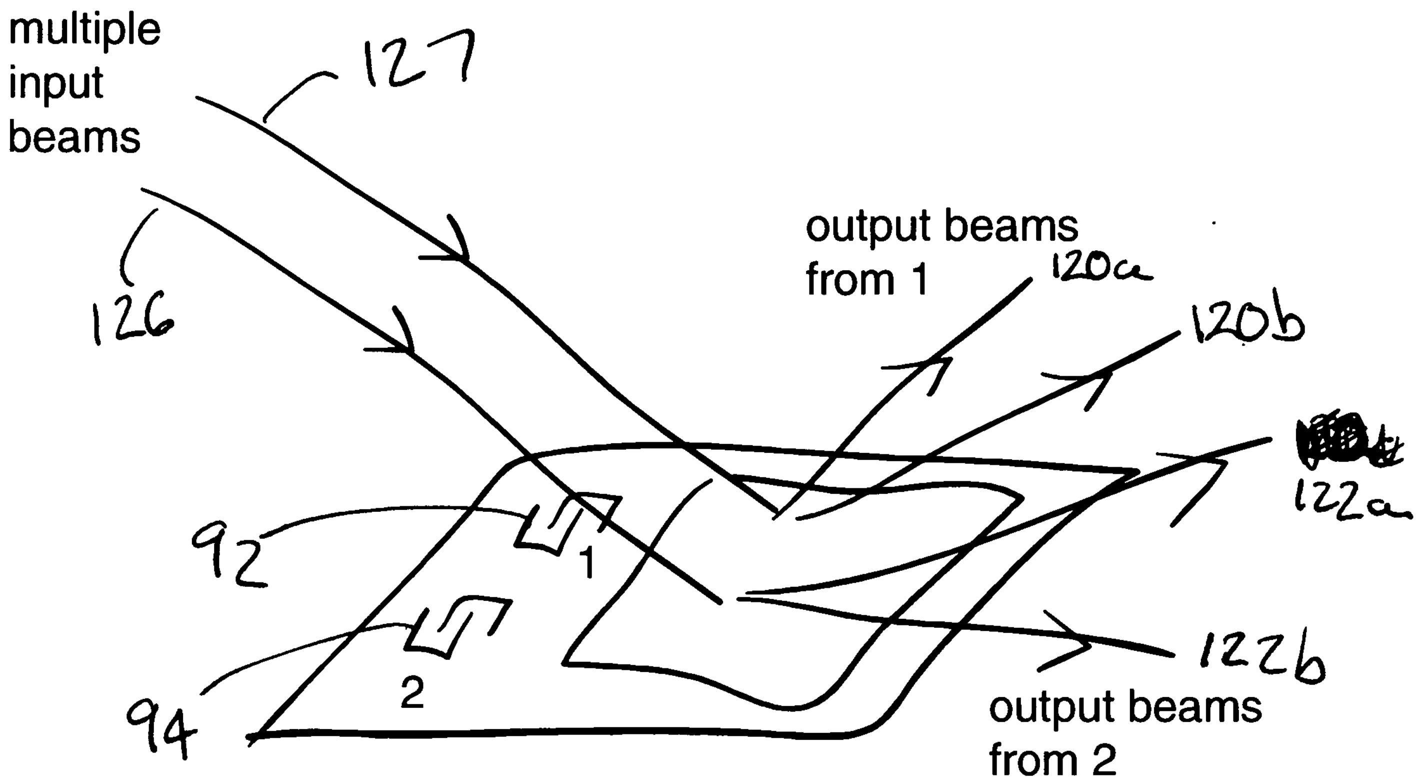

multiple
input
beams
127
126
output beams
from 1
120a
120b
122a
92
1
94
2
122b
output beams
from 2

FIG 5d

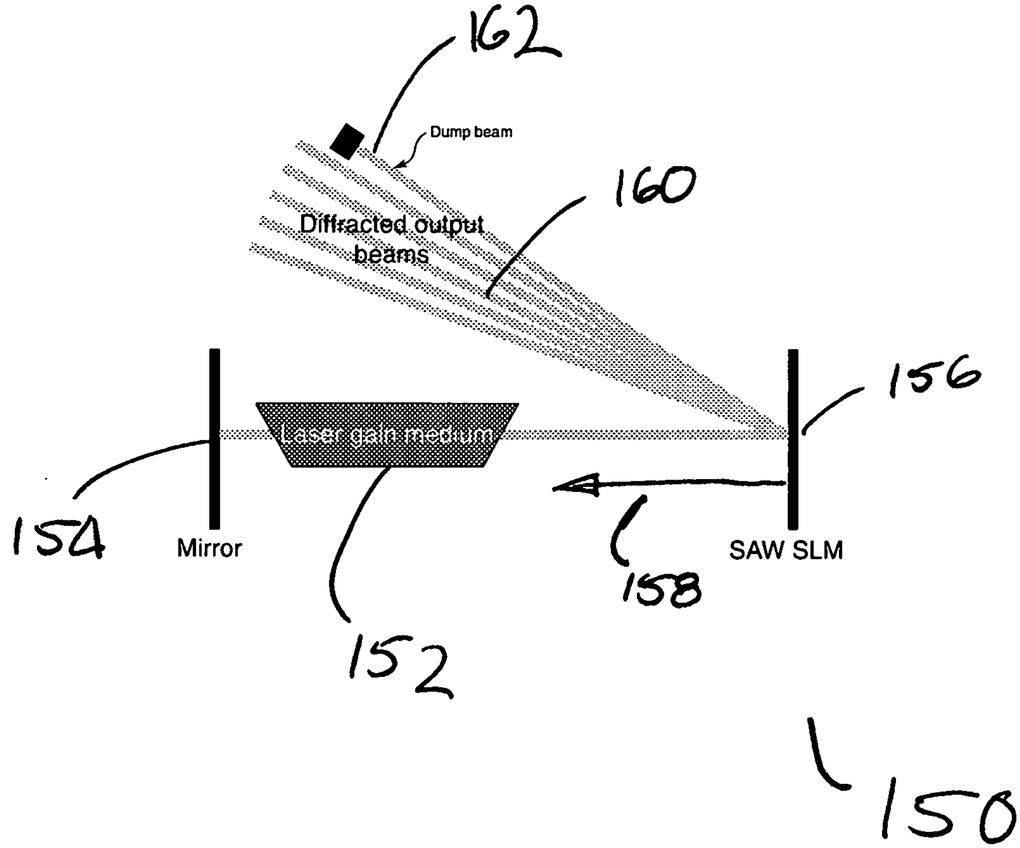

162
Dump beam
160
Diffracted output beams
156
Laser gain medium
154
Mirror
158
SAW SLM
152
150

FIG 6

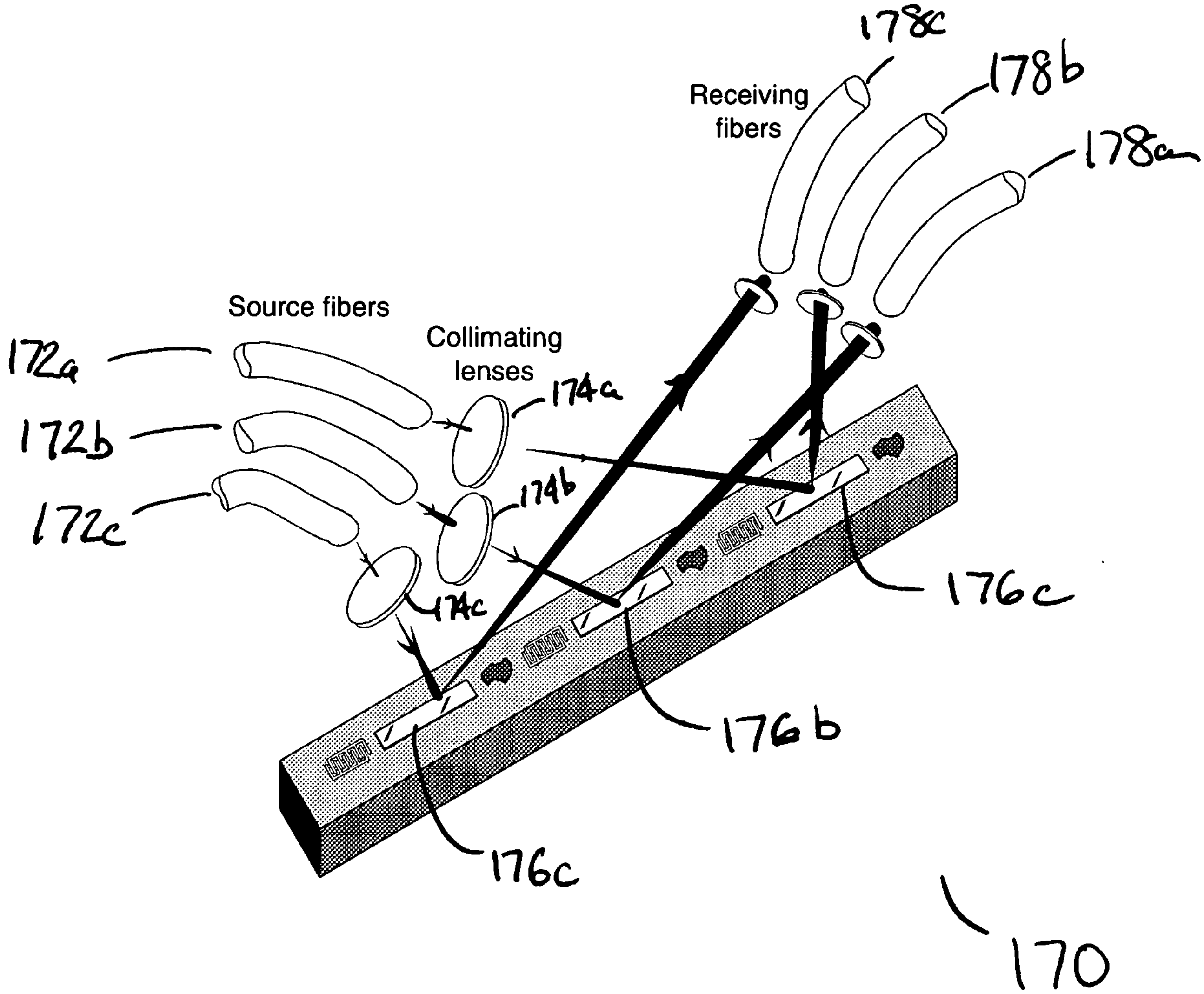
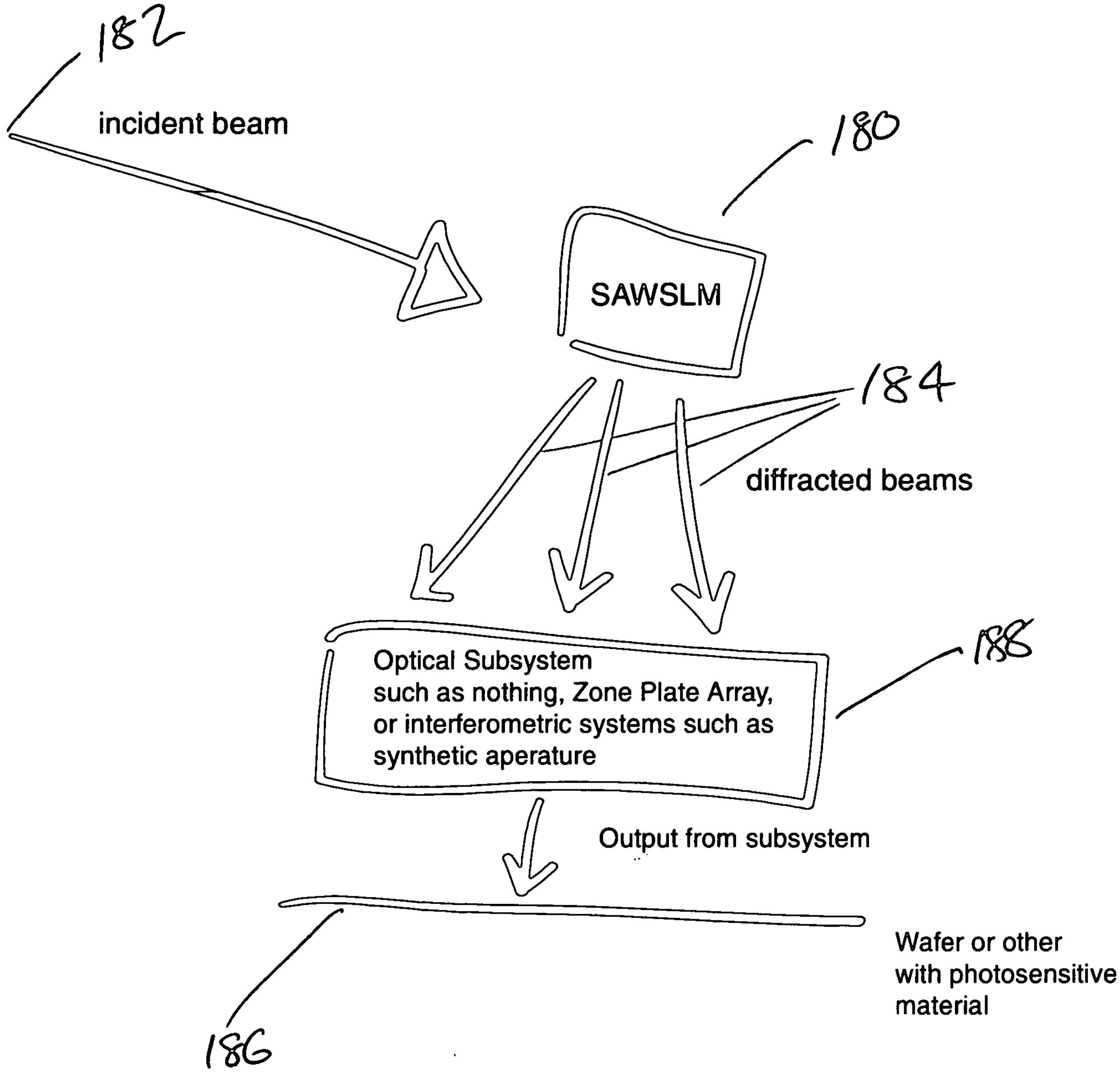

178c
178b
178a
Receiving fibers
Source fibers
Collimating lenses
172a
172b
172c
174a
174b
174c
176c
176b
176c
170

FIG 7



SAW SLM as part of Lithographic System

FIG 8

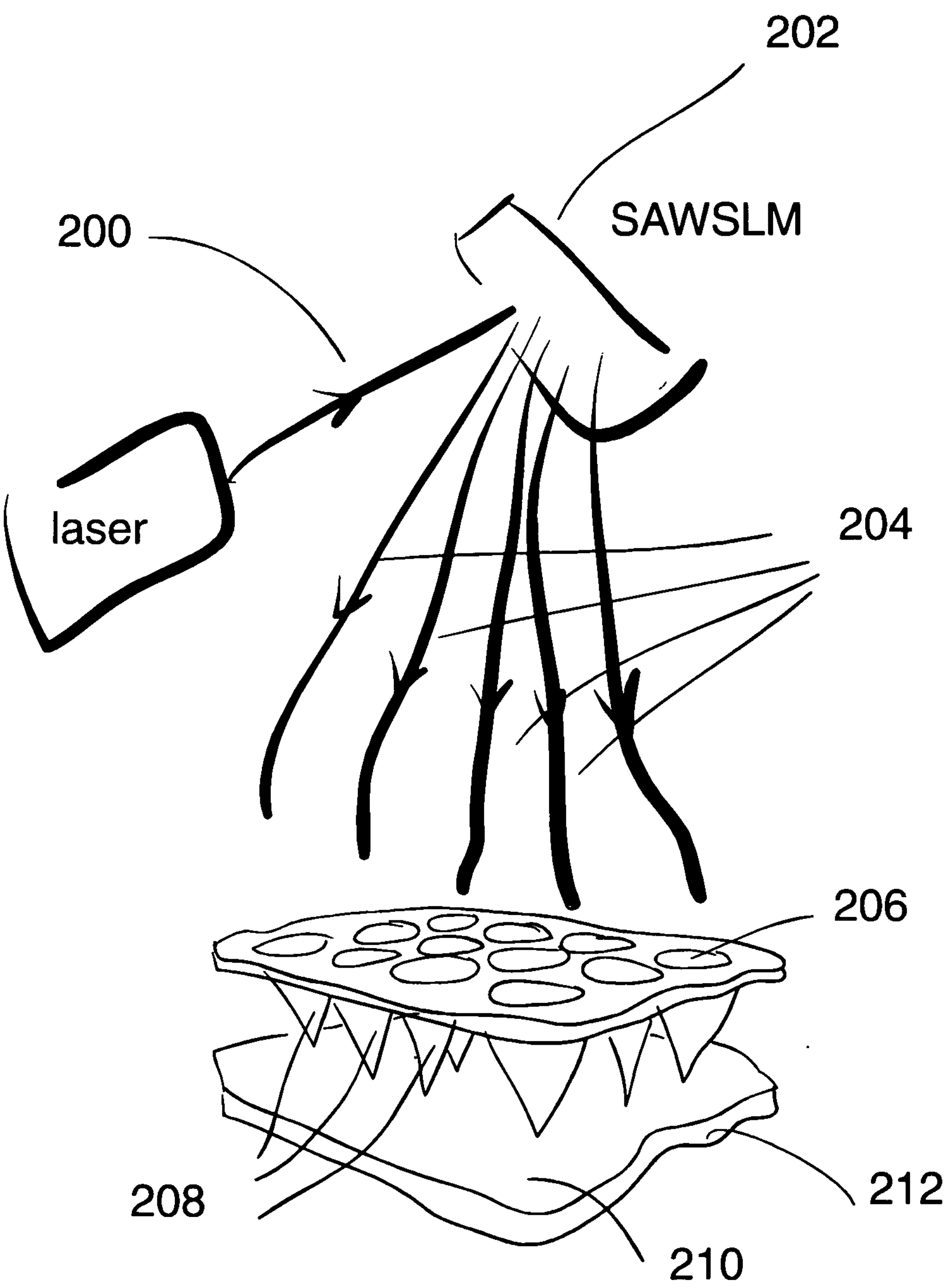


FIG 9

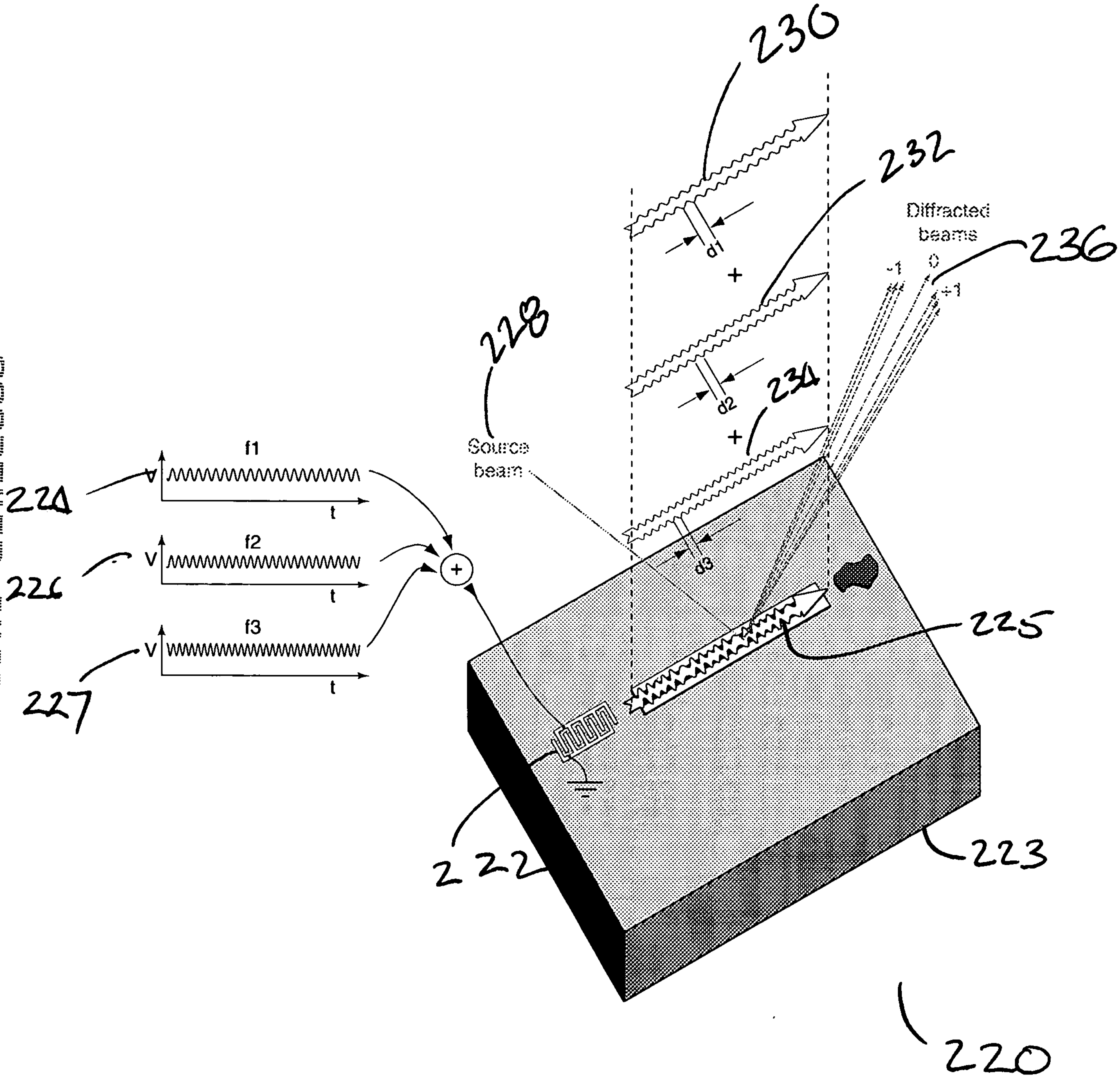

230
232
236
Diffracted beams
-1
0
+1
d1
d2
d3
228
Source beam
234
f1
f2
f3
V
t
224
226
227
225
222
223
220

FIG 10

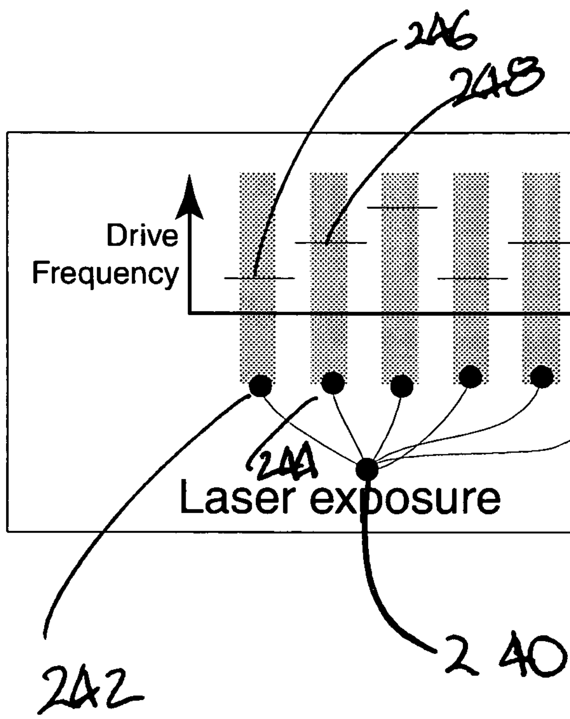


FIG 11

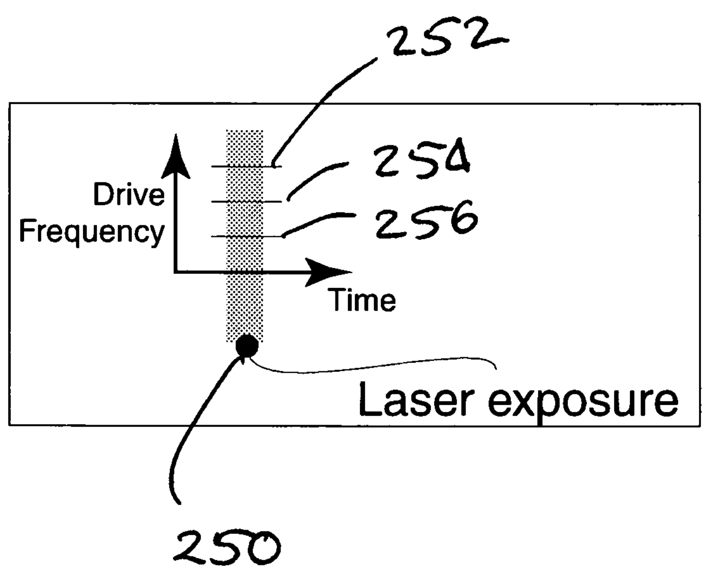
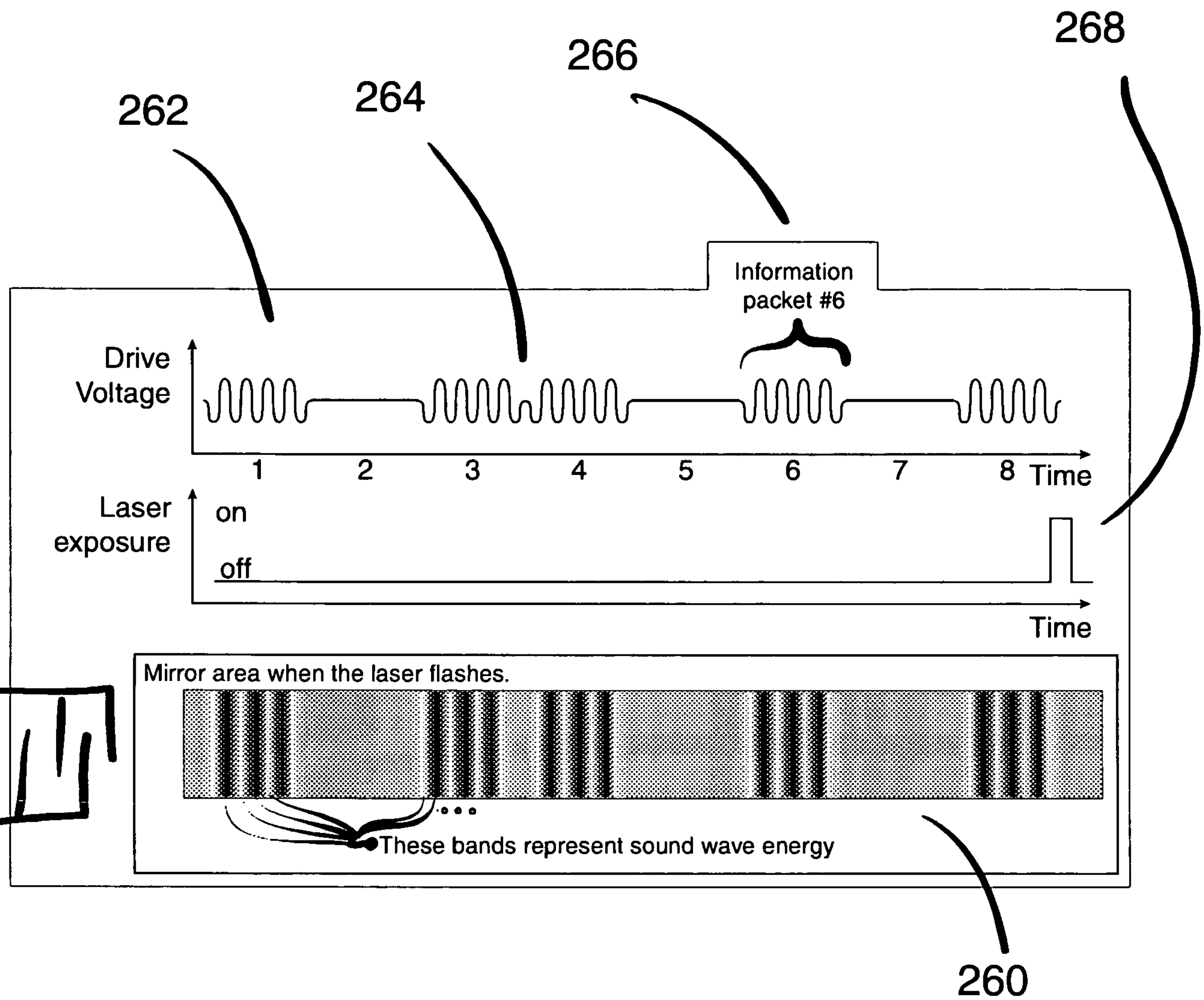
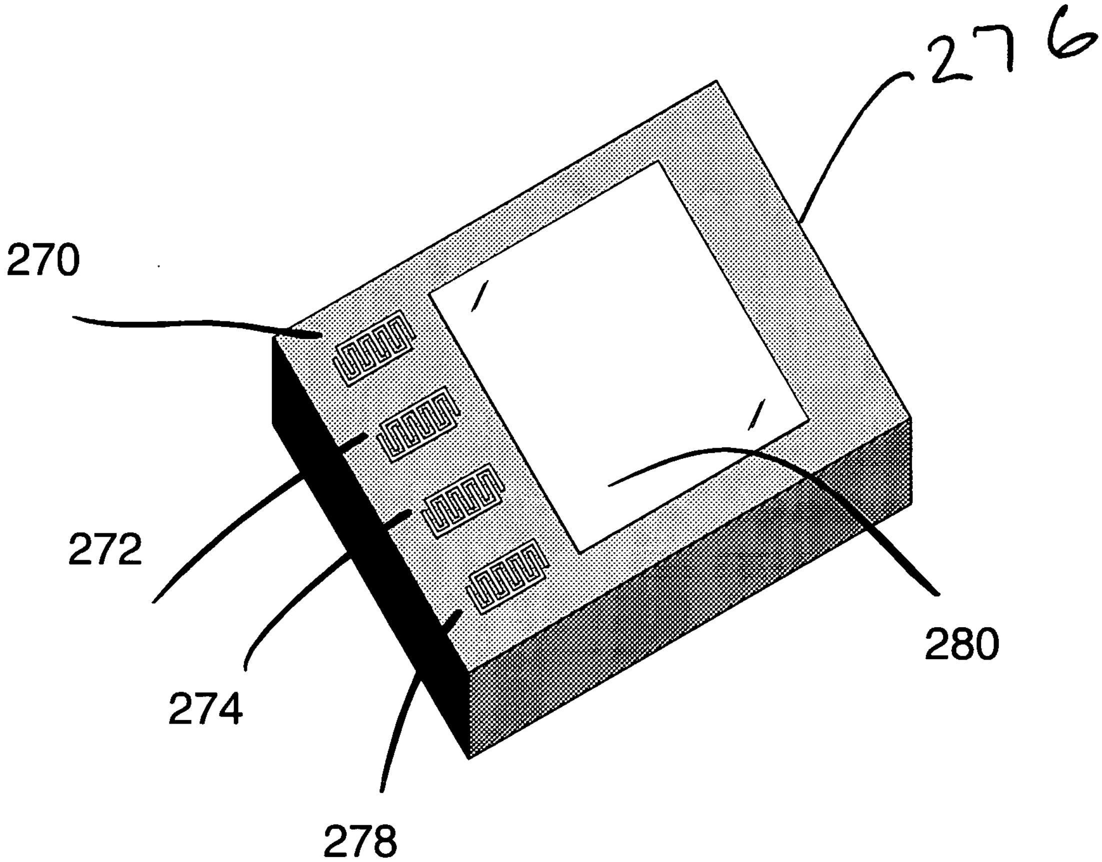


FIG 12


262
264
266
268
Information packet #6
Drive Voltage
1
2
3
4
5
6
7
8
Time
Laser exposure
on
off
Time
Mirror area when the laser flashes.
These bands represent sound wave energy
260

13



14

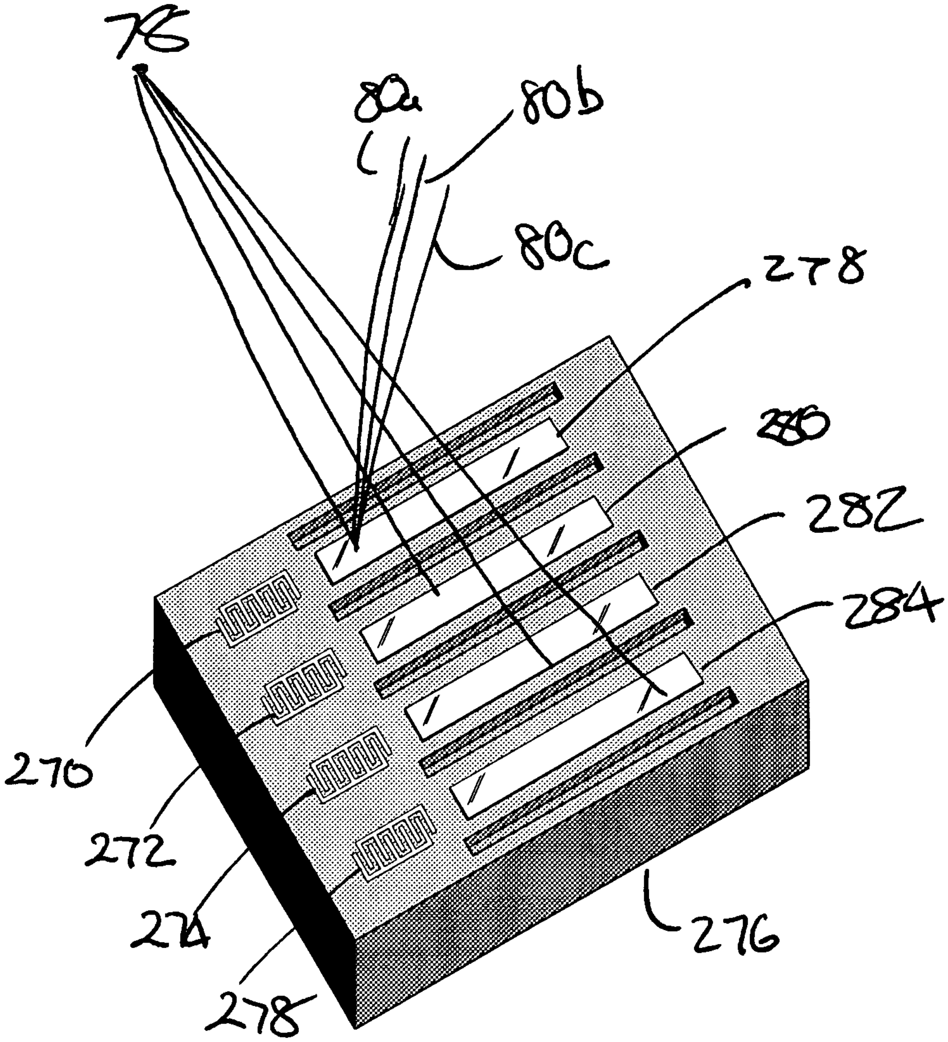


FIG 14b